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TRANSMITTAL FORM

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Signature

J. David Ellett, Jr.

Application Number	09/618,178
Filing Date	18 July 2000
First Named Inventor	LINCOLN, Stephen E.
Art Unit	1634
Examiner Name	FREDMAN, Jeffrey N.
Attorney Docket Number	13151-2

2004

	ENCLOSURES (check all that appl	y)				
Fee Transmittal Form	Drawing(s)	After Allowance communication to Group				
Fee Attached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences				
Amendment / Reply	Petition	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)				
After Final	Petition to Convert a Provisional Application	Proprietary Information				
Affidavits/declaration(s)	Power of Attorney, Revocation Change of Correspondence	Status Letter				
Extension of Time Request	Terminal Disclaimer	Other Enclosure(s) (please identify below):				
Express Abandonment Request	Request for Refund	PTO/SB/08b Form eleven citations Notice of Opposition with attachments				
Information Disclosure Statement	CD, Number of CD(s)	Transmittal Communication from European Patent Office Return Receipt Postcard				
Certified Copy of Priority Document(s)	Remarks	Actual a receipt 2 voteatu				
Response to Missing Parts/ Incomplete Application						
Response to Missing Parts under 37 CFR 1.52 or 1.53						
under 37 CFR 1.52 or 1.53						
SIGNATUI	RE OF APPLICANT, ATTORNEY, OR AGEN	NT				
Firm J. David Ellett, Jr.						
or Individual name						
Signature	Signature Auro alult					
Date / 5 A	bril 2004					
CE	RTIFICATE OF TRANSMISSION/MAIL	ING				

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit/by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date

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PTO/SB/17 (10-03)

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FEE TRANSMITTAL	Com		
	Application Number	0	
for FY 2004	Filing Date	18	
Effective 10/01/2003. Patent fees are subject to annual revision.	First Named Inventor	L	
Applicant claims small entity status. See 37 CFR 1.27	Examiner Name	F	

\$180.00

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TOTAL AMOUNT OF PAYMENT

TRATE IBADOM

Complete if Known			
Application Number	09/618,178		
Filing Date	18 July 2000		
First Named Inventor	LINCOLN, Stephen E.		
Examiner Name	FREDMAN, Jeffrey N.		
Art Unit	1634		
Attorney Docket No.	13151-2		

METH	OD OF PAYMENT	(check all that apply)	FEE CALCULATION (continued)					
Check C	Credit card Money Order	Other None	3. ADDITIONAL FEES					
Deposit Acco			Large E	ntity Fee	Smal Fee	<u>l Entity</u> Fee	_	
Deposit Account	11-0171	1	Code	(\$)	Code	(\$)	Fee Description	Fee Paid
Number	11-01/1	<u> </u>	1051	130	2051		Surcharge - late filing fee or oath Surcharge - late provisional filing fee or cover	
Deposit Account	Kalow & Sprin	aut I I D	1052	50	2052	25	sheet	
Name	Kalow & Sprin	gut LLF	1053	130	1053	130	Non - English specification	
The Director is aut	horized to: (check all t	hat apply)	1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
Charge fee(s) in	ndicated below Cred	it any overpayments	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge any add	litonal fee(s) or any underpay	ment of fee(s)	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner	
	ndicated below, except for the	e filing fee	1251	110	2251	E E	action Extension for reply within first month	
to the above-identific			1251	420	2252	210	Extension for reply within second month	
	FEE CALCULATIO	DN	1252	950	2252	475	Extension for reply within third month	
1. BASIC FIL			1254		2254	740	Extension for reply within fourth month	
Large Entity Su	mail Entity ee Fee Fee Descriptio	on	1255		2255	1,005	Extension for reply within fifth month	
	ode (\$)	Fee Paid	1401	330	2401		Notice of Appeal	
i	01 385 Utility filing fee		1402	330	2402	165	Filing a brief in support of an appeal	
	02 170 Design filing fee	·	1403	290	2403	145	Request for oral hearing	
i i	03 265 Plant filing fee 04 385 Reissue filing fe		1451			1.510	Petition to institute a public use proceeding	
	04 385 Reissue filing fe 05 80 Provisional filing		1452	110	2452		Petition to revive - unavoidable	
1003 100 20	SUBTOTAL (1)	(\$)	1453		2453		Petition to revive - unintentional	
			1501	1,330	2501	665	Utility issue fee (or reissue)	
2. EXTRA CLAIM FEES FOR UTILITY AND Fee from			1502	480	2502	240	Design issue fee	
	Extra Claims	below Fee Paid	1503	640	2503	320	Plant issue fee	
Total Claims Independent	-20** = 0 X	= 0.00	1460	130	1460	130	Petitions to the Commissioner	
Claims Multiple Dependen	3**=	= 0.00	1807	50	1807	50	Processing fee under 37 CFR § 1.17(q)	
l	" mail Entity	= \	1806	180	1806	180	Submission of Information Disclosure Statement	180.00
Fee Fee Fe Code (\$) Co	e Fee Fee Dese de (\$)	cription	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
	02 9 Claims in exces		1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
	•	aims in excess of 3	1810	770	2810	385	For each additional invention to be examined	
		dent claim, if not paid	1801	770	2801	205	(37 CFR § 1.129(b)) Request for Continued Examination (RCE)	
1204 86 22	over original	pendent claims patent	1802	900	1802	385 900	Request for expedited examination	
1205 18 22	05 9 ** Reissue clair and over origi	ns in excess of 20 inal patent		'			of a design application	
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or number previo	ously paid, if greater; For I	Reissues, see above	Rea	uceu D	y Dasic	riiiig i	ee Paid SUBTOTAL (3) (\$)	\$190.00
SUBMITTED BY Complete (if applicable)								

Registration No. Name (Print/Type) 27, 875 J. David Ellett, dr. Telephone (212) 813-1600 (Attorney/Agent) Signature

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Ratent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re Patent Application of

Applicants: LINCOLN, Stephen E. and

KNAPP, Michael R.

: Examiner: FREDMAN, Jeffrey N.

Serial No.: 09/618,178

Group Art Unit: 1634

Filing Date: 18 July 2000

Title

01 FC:1806

: "Automatic Genotype Determination"

Kalow & Springut LLP

488 Madison Avenue, 19th Floor New York, New York 10022

04/09/2004 SMINASS1 00000031 09618178 180.00 OP

Customer No. 23719

5 April 2004

Commissioner for Patents Post Office Box 1450 Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT **UNDER 37 CFR 1.97(d)**

SIR or MADAM:

Pursuant to 37 CFR 1.97(d), the attorneys for the applicants hereby bring to the attention of the Patent and Trademark Office the following publications broadly related to the field of the invention of the application identified above:

Certificate of Mailing Under 37 CFR 1.8

I hereby declare that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Post Office Box 1450, Alexandria, VA 22313-1450, on

Applicants:

Stephen E. Lincoln and

Michael R. Knapp

Serial No.:

09/618,178

Filed:

18 July 2000

Page 2

Non-Patent Literature Documents

- D.2 BAIRD, M.L., "Quality control and quality assurance," in: BALLANTYNE, J., SENSABAUGH, G., WITTKOWSKI, J. (eds) "DNA technology and forensic science" (1989) 32 Banbury rpt., Cold Springs Laboratory Press, pp. 175-190.
- D.3 GALBRAITH *et al.*, "Sizing bands on autoradiograms: A study of precision for scoring DNA fingerprints," (1991), Electrophoresis 12: 210-220.
- D.4 BUCKLETON et al., "A continuous model for interpreting the positions of bands in DNA locus-specific work," JFSS 31 (3): 353-363.
- D.5 BARTH, MUHLBAUER, NIKOL, WORLE, "Mathematische Formein und Definitionen," (1986) Bayerischer Schulbuch-Verlag, Munich and J. Lindauer Verlag (Schaefer), Munich, pages 110 and 111 [in German].
- D.6 KINGHORN, B. P., KENNEDY, B.W., SMITH, C., "A Method of screening for genes of major effect," Genetics (1993), 134: 351-360.
- D.7 SYVANEN, A.C., AALTO-SETALA, K., HARJU, L., KONTULA, K., SODERLUND, H., "A primer-guided nucleotide incorporation assay in genotyping of apolipoprotion E," (1990), Genomics 8:684-692.
- D.8 LANDER "Population Genetic Considerations in the Forensic Use of DNA Typing," in: BALLANTYNE, J., SENSABAUGH, G., WITTKOWSKI, J. (eds) "DNA Technology and Forensic Science" (1989) Banbury Report 32, Cold Spring Harbor Laboratory Press, pp. 143-156.
- D.9 BAIRD et al., "Allele Frequency Distribution of Two Highly Polymorphic DNA Sequences in Three Ethnic Groups and Its Application to the Determination of Paternity," (1986) Am J Hum Genet 39: pp. 489-501 [Pages 494 and 495 are missing and will be provided subsequently].
- D.10 COMMITTEE ON DNA TECHNOLOGY IN FORENSIC SCIENCE "DNA Technology in Forensic Science," (1992) National Academy Press, Washington, D.C.
- D.11 KILBANE, A.J., SILBART, L.K., MANIS, M., BEITINS, I.Z., WEBER, W.W., "Human N-acetylation genotype determination with urinary caffeine metabolites," (1990) Clin. Pharma- col., Ther. 47: 470-477.

Applicants:

Stephen E. Lincoln and

Michael R. Knapp

Serial No.:

09/618,178

Filed:

18 July 2000

Page 3

D.12 GRIFFITHS, A.J.F., MILLER, J.H., SUZUKI, D.T., LEWONTIN, R.C., GELBART, W.M., eds (1993) "An introduction to genetic analysis," 5th edition, W.H. Freeman and Company, New York; pages 1-42, 425, 426, 456-459, 484-487, 703-732, and 737-749.

The items listed above are identified on Form PTO/SB/08 which is submitted with this statement. A copy of each of the items identified above is submitted with this statement.

The attorneys for the applicants take no position on whether or not any item cited above and listed on Form PTO/SB/08 constitutes prior art against the subject application under any particular provision of Title 35 of the United States Code.

Pursuant to 37 CFR 1.97(e)(1), the undersigned attorney hereby certifies that each item of information contained in the present information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement. A copy of the communication; a Notice of Opposition filed by a third party in the European Patent Office on 19 December 2003 against a European counterpart to the subject application, European patent EP 0 736 107; accompanies the present information disclosure statement. The 19 December 2003 Notice of Opposition was forwarded by the European Patent Office to a representative of the patent owner on 12 January 2004, as evident from the accompanying copy of a transmittal communication from the European Patent Office. The present information disclosure statement is therefore being submitted to the United States Patent and Trademark Office within three months of the 12 January 2004 communication of the Notice of Opposition to applicants' representative by the European Patent Office.

The accompanying Notice of Opposition identifies twelve citations designated D1 through D12 inclusive. Eleven citations D2 through D12 inclusive are contained in the present information disclosure statement by being listed above and on the accompanying form PTO/SB/08. Citation D1 of the Notice of Opposition, a publication by Nikiforov *et al.* in *Nucleic Acids Research*,

Applicants:

Stephen E. Lincoln and

Michael R. Knapp

Serial No.:

09/618,178

Filed:

18 July 2000

Page 4

volume 22, pages 4167 through 4175 (1994), was previously made of record with respect to the subject application in an information disclosure statement filed on 7 September 2000 and is specifically excluded from the certification under 37 CFR 1.97(e)(1) set forth above. The office file for the subject application of the attorneys for the applicants does not include a copy of the Form PTO-1449 submitted with the information disclosure statement of 7 September 2000 signed by the examiner. However, in a telephone conference on or about 2 April 2004 with the undersigned attorney, the examiner presently in charge of the subject application, Examiner Jeffrey Fredman, indicated that Patent and Trademark Office computer records show that the Form PTO-1449 submitted with the information disclosure statement of 7 September 2000 had been signed by an examiner previously in charge of the application.

The fee under 37 CFR 1.97(d) for submitting an information disclosure statement under the present circumstances is estimated to be one hundred eighty dollars (\$180.00). A check to cover the estimated amount of \$180.00 is submitted with this statement in payment for the required fee. Please charge any deficiency in the payment submitted for the fee, or credit any overpayment, to deposit account No. 11-0171.

Respectfully submitted,

Attorneys for the Applicants

No. 27,875)

Telephone: (212) 813-1600

PTO/SB/08B (08-03) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it contains a valid OMB control number. Complete if Known (ute for form 1449/PTO **Application Number** 09/618,178 **Filing Date** INFORMATION DISCLOSURE 18 July 2000 STATEMENT BY APPLICANT **First Named Inventor** LINCOLN, Stephen E. Art Unit 1634 (Use as many sheets as necessary) **Examiner Name** FREDMAN, Jeffrey N. Attorney Docket Number Sheet

13151-2

2

	· · · · ·	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	D12	GRIFFITHS, A.J.F., MILLER, J.H., SUZUKI, D.T., LEWONTIN, R.C., GELBART, W.M., eds (1993) "An introduction to genetic analysis," 5th edition, W.H.Freeman and Company, New York; pages 1-42, 425, 426, 456-459, 484-487, 703-732, and 737-749.	
,			

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including as application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ler the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known itute for form 1449/PTO **Application Number** 09/618,178 INFORMATION DISCLOSURE **Filing Date** 18 July 2000 STATEMENT BY APPLICANT **First Named Inventor** LINCOLN, Stephen E. Art Unit 1634 (Use as many sheets as necessary) **Examiner Name** FREDMAN, Jeffrey N.

Attorney Docket Number

13151-2

Sheet

1

of

2

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	- D2	BAIRD, M.L., "Quality control and quality assurance," in: Ballantyne, SENSABAUGH, G., WITTKOWSKI, J. (eds) "DNA Technology and forensic Science" (1989) 32 Banbury rpt., Cold Springs Lab Press, pp. 175-190	
	D3	GALBRAITH et al. "Sizing bands on autoradiograms: A Study of precision for scoring DNA fingerprints," (1991), Electrophoresis 12: 210-220	
	D4	BUCKLETON et al., "A continuous model for interpreting the positions of bands in DNA locus-specific work," JFSS 31 (3): 353-363	
	D5	BARTH, MUHLBAUER, NIKOL, WORLE, "Mathematische Formeln und Definitionen," Bayerischer Schulbuch-Verlag, Munich (1986) and J. Lindauer Verlag (Schaefer), Munich,pp. 110-111	
	D6	KINGHORN, B.P. KENNEDY, B.W., SMITH, C., "A Method of screening for genes of Major effect," Genetics (1993), 134: 351-360	
	D7	SYVANEN, A.C., AALTO-SETALA, K., HARJU, L. KONTULA, K., SODERLUND, H., "A primer-guided nucleotide incorporation assay in genotyping of apolipoprotion E," (1990), Genomics 8:684-692	
	D8	LANDER "Population Genetic Considerations in the Forensic Use of DNA Typing," in: BALLANTYNE, J., SENSABAUGH, G., WITTKOWSKI, J. (eds) "DNA Technology and Forensic science" (1989) Banbury report 32, Cold Spring Harbor Lab. Press, pp. 143-156	
	р9	BAIRD et al., "Allele Frequency Distribution of Two Highly Polymorphic DNA sequences in Three Ethnic Groups and Its Application to the Determination of Paternity," (1986) Am J. Hum Genet 39: pp 489-501*	
		COMMITTEE ON DNA TECHNOLOGY IN FORENSIC SCIENCE "DNA Technology in Forensic Science", (1992) National Academy Press, Washington, D.C.	
	D11	KILBANE, A.J., SILBART, L.K., MANIS, M., BEITINS, IZZ., WEBER, W.W., Human N-acetylation genotype determination with urinary caffeine matabolites, (1990) Clin. Pharma-col. Ther. 470-477	

Examiner	 Date	
Signature	Considered	

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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^{*}Pages 494 and 495, missing-will be provided later.